## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

## Listing of Claims:

 (Currently Amended) A host device operative to input data to a <u>removable</u> storage device <u>provided with a first encryption unit for storing data</u> and output data from the storage device, the host device comprising:

a second encryption unit configured to perform a host-device side process of a series of cryptographic processing for encrypting data to be secured; and

a controller which

divides the [[a]] series of cryptographic processing for enerypting data to be secured and inputting or outputting the same into a plurality of procedures, and divides the plurality of procedures into procedures to be executed in the first encryption unit and procedures to be executed in the second encryption unit, and

issues to the storage device a command for making controlling the first encryption unit to storage-device execute a procedure the procedures to be executed in the first encryption unit on the storage-device side out of the procedures,

wherein the controller obtains information for estimating time necessary to execute the command from the storage device prior to the issuance of the command, sets a wait time for the command based on the obtained information, issues the command to the storage device via a bus electrically connecting the host device and the storage device, releases the bus for another command, and waits the time set for the command before it issues a command for the next

procedure to the storage device, in order to have the next procedure executed by the first encryption unit.

- (Original) The host device according to claim 1, wherein the information for estimation includes any one of a typical processing time, an average processing time, and a maximum processing time necessary to execute the command.
- 3. (Original) The host device according to claim 1, wherein the information for estimation includes any one of a typical processing time, an average processing time, and a maximum processing time necessary for at least one basic process out of an encrypting operation, a decrypting operation, a hash operation, a random number generating operation, and log retrieval which are used to execute the command.
  - (Withdrawn) A storage device comprising:

a storage medium which stores data;

a controller which receives a command Irom a host device in executing a series of cryptographic processing for encrypting data to be secured and inputting or outputting the same between the storage medium and the host device, the command being issued as a result of division of the cryptographic input/output processing into a. plurality of procedures; and

a cryptographic processing unit which executes the command,

wherein in response to a request from the host device, the controller provides information from which the host device estimates the time necessary for the cryptographic processing unit to execute the command.

5. (Withdrawn) The storage device according to claim 4, wherein according to the processing procedures, the cryptographic processing is divided into any of process units including:

a process for receiving data input from the host device and performing encryption or decryption using the cryptographic processing unit if necessary;

a process for performing encryption, decryption, or signature attachment using the cryptographic processing unit in order to output data to the host device; and

a process for outputting data to the host device, and the command is issued by each of the process units divided.

- 6. (Withdrawn) The storage device according to claim 4, wherein the information for estimation includes any one of a typical processing time, an average processing time, and a maximum processing time necessary to execute the command.
- 7. (Withdrawn) The storage device according to claim 5, wherein the information for estimation includes any one of a typical processing time, an average processing time, and a maximum processing time necessary to execute the command.
- 8. (Withdrawn) The storage device according to claim 4, wherein the information for estimation includes any one of a typical processing time, an average processing time, and a maximum processing time necessary for at least one basic process out of an encrypting operation, a decrypting operation, a hash operation, a random number generating operation, and log retrieval which are used to execute the command.
- (Withdrawn) The storage device according to claim 5, wherein the information for estimation includes any one of a typical processing time, an average processing time, and a

maximum processing time necessary for at least one basic process out of an encrypting operation, a decrypting operation, a hash operation, a random number generating operation, and log retrieval which are used to execute the command.

- 10. (Withdrawn) The storage device according to claim 4, wherein the controller checks if the commands issued as a result of division of the plurality of procedures are in regular order of execution.
- 11. (Withdrawn) The storage device according to claim 5, wherein the controller checks if the commands issued as a result of division of the plurality of procedures are in regular order of execution.
- 12. (Currently Amended) A method for executing a series of cryptographic processing for encrypting data to be secured and inputting or outputting the data between a <u>removable</u> storage device <u>provided with a first encryption unit</u> for storing data and a host device <u>provided with a second encryption unit</u>, comprising:

dividing the cryptographic processing into a plurality of procedures, and <u>dividing the</u>

<u>plurality of procedures into procedures to be executed in the first encryption unit and procedures to be executed in the second encryption unit making the host device execute a procedure to be executed on the host device side out of the procedures;</u>

allowing the second encryption unit to execute the procedures to be executed in the second encryption unit;

allowing the host device to issue a command to the storage device in order to [[make]]

control the first encryption unit to storage device execute a procedure the procedures to be
executed in the first encryption unit on the storage device side;

allowing the storage device to receive the command; and allowing the first encryption unit storage device to execute the command,

wherein the host device obtains information for estimating time necessary for the storage device to execute the command from the storage device prior to the issuance of the command, issues the command to the storage device via a bus electrically connecting the host device and the storage device, releases the bus for another command, and waits the time estimated necessary to execute the command before it issues a command for the next procedure to the storage device, in order to have the next procedure executed by the first encryption unit.

13. (Currently Amended) The method according to claim 12, wherein according to the processing procedures; the cryptographic processing is divided into any of process units, the divided process units including:

a-process-for receiving data input from the host device and performing encryption or decryption using the cryptographic processing unit if necessary;

a-process-for performing encryption, decryption, or signature attachment using the cryptographic processing unit in order to output data to the host device; and

a process for outputting data to the host device, and the command is issued by each of the process units divided.

14. (Previously Presented) The method according to claim 12, wherein the information for estimation includes any one of a typical processing time, an average processing time, and a maximum processing time necessary to execute the command.

- 15. (Previously Presented) The method according to claim 13, wherein the information for estimation includes any one of a typical processing time, an average processing time, and a maximum processing time necessary to execute the command.
- 16. (Previously Presented) The method according to claim 12, wherein the information for estimation includes any one of a typical processing time, an average processing time, and a maximum processing time necessary for at least one basic process out of an encrypting operation, a decrypting operation, a hash operation, a random number generating operation, and log retrieval which are used to execute the command.
- 17. (Previously Presented) The method according to claim 13, wherein the information for estimation includes any one of a typical processing time, an average processing time, and a maximum processing time necessary for at least one basic process out of an encrypting operation, a decrypting operation, a hash operation, a random number generating operation, and log retrieval which are used to execute the command.